



ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

Title of Invention

Polymerases for Analyzing or Typing Polymorphic Nucleic
Acid Fragments and Uses Thereof

Application Number: 09/891332
Confirmation Number: 4572
First Named Applicant: Joseph Solus
Attorney Docket Number: 0942.4250003
Art Unit: 1637
Examiner: Joyce Tung
Search string: (5409818 or

US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
ST	1	5409818	1995-04-25	Davey et al.			
" "	2	5455166	1995-10-03	Walker			

Remarks

Note: Remarks are not for responding to an office action.

This Information Disclosure Statement is being filed before the mailing of a first Office Action after the filing of a request for continued examination under 37 CFR 1.114. No statement or fee is required.

Signature


Examiner Name	Date
<i>Joey W</i>	<i>2/26/2014</i>



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Title of Invention	Polymerases for Analyzing or Typing Polymorphic Nucleic Acid Fragments and Uses Thereof						
Application Number:		09/891332					
Confirmation Number:		4572					
First Named Applicant:		Joseph Solus					
Attorney Docket Number:		0942.4250003					
Search string:		(H153100 or 4795699 or 4889818 or 4962020 or 5047342 or 5079352 or 5173411 or 5270170 or 5270179 or 5322785 or 5374553 or 5420029 or 5614365 or 6017745 or 6306588 or 6444424 or 6506560 or 20030027296).pn.					
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Note: Applicant is not required to submit a paper copy of cited US Patent Documents							
init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
37	1	H153100	1996-05-07	Blumentals et al.			
	2	4795699	1989-01-03	Tabor et al.			
	3	4889818	1989-12-26	Gelfand et al.			
	4	4962020	1990-10-09	Tabor et al.			
	5	5047342	1991-09-10	Chatterjee			
	6	5079352	1992-01-07	Gelfand et al.			
	7	5173411	1992-12-22	Tabor et al.			
	8	5270170	1993-12-14	Schatz et al.			
	9	5270179	1993-12-14	Chatterjee			
	10	5322785	1994-06-21	Comb et al.			
	11	5374553	1994-12-20	Gelfand et al.			
	12	5420029	1995-05-30	Gelfand et al.			
	13	5614365	1997-05-25	Tabor et al.			
	14	6017745	2000-01-25	Minkley, Jr.			
	15	6306588	2001-10-23	Solus et al.	B1		
	16	6444424	2002-09-03	Chatterjee et al.	B1		
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J.T.	17	6506560	2003-01-14	Hughes et al.	B1	
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US Published Applications

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J.T.	1	20030027296	2003-02-06	Chatterjee	A1		

Signature


Examiner Name	Date
<i>John T. J.</i>	<i>7/26/2004</i>



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	3	4889818	1989-12-26	Gelfand et al.			
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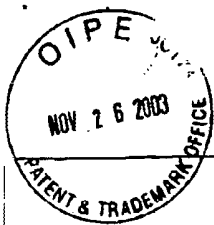
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FORM PTO-1449

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	AM						Yes No
	AN						Yes No
	AO						Yes No
J.B.	AP3	EP 0 258 017 B1	03/02/1988	Europe			✓ Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR		
J.Z.	AS	12	Astatke, M., et al., "Deoxynucleoside Triphosphate and Pyrophosphate Binding Sites in the Catalytically Competent Ternary Complex for the Polymerase Reaction Catalyzed by DNA Polymerase I (Klenow Fragment)," J. Biol. Chem. 270:1945-1954, The American Society for Biochemistry and Molecular Biology, Inc. (1995).
J.Z.	AT	12	Barnes, W.M., "The fidelity of Taq polymerase catalyzing PCR is improved by an N-terminal deletion," Gene 112:29-35, Elsevier Science Publishers B.V. (1992).

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JL	AL4	EP 0 351 138 B1	01/17/1990	Europe	—	—	<input checked="" type="radio"/> Yes <input type="radio"/> No
	AM4	WO 90/08839 A1	08/09/1990	WIPO	—	—	<input checked="" type="radio"/> Yes <input type="radio"/> No
	AN4	EP 0 386 859 B1	09/12/1990	Europe	—	—	<input checked="" type="radio"/> Yes <input type="radio"/> No
	AO4	WO 91/02090 A1	02/21/1991	WIPO	—	—	<input checked="" type="radio"/> Yes <input type="radio"/> No
JL	AP4	WO 91/16446 A1	10/31/1991	WIPO	—	—	<input checked="" type="radio"/> Yes <input type="radio"/> No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

JL	AR	13	Basu, A., and Modak, M.J., "Identification and Amino Acid Sequence of the Deoxynucleoside Triphosphate Binding Site in <i>Escherichia coli</i> DNA Polymerase I," <i>Biochemistry</i> 26:1704-1709, American Chemical Society (1987).
	AS	13	Beese, L.S., et al., "Crystal Structures of the Klenow Fragment of DNA Polymerase I Complexed with Deoxynucleoside Triphosphate and Pyrophosphate," <i>Biochemistry</i> 32:14095-14101, American Chemical Society (1993).
JL	AT	13	Bergquist, P.L., et al., "Genetics and Potential Biotechnological Applications of Thermophilic and Extremely Thermophilic Microorganisms," <i>Biotechnol. Genet. Eng. Rev.</i> 5:199-244, Intercept, Ltd. (1987).

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	APPLICANT SOLUS et al.	
	FILING DATE June 27, 2001	GROUP 1637

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J.T.	AL5	WO 92/03556 A1	03/05/1992	WIPO	—	—	<input checked="" type="radio"/> Yes <input type="radio"/> No
I	AM5	WO 92/06200 A1	04/16/1992	WIPO	—	—	<input checked="" type="radio"/> Yes <input type="radio"/> No
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I	AO5	EP 0 516 245 A1	12/02/1992	Europe	—	—	<input checked="" type="radio"/> Yes <input type="radio"/> No
J.T.	AP5	WO 93/02212 A1	02/04/1993	WIPO	—	—	<input checked="" type="radio"/> Yes <input type="radio"/> No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

J.T.	AR	14	Bernad, A., et al., "A Conserved 3'-5' Exonuclease Active Site in Prokaryotic and Eukaryotic DNA Polymerases," Cell 59:219-228, Cell Press (1989).
I	AS	14	Blanco, L., et al., "Evidence favouring the hypothesis of a conserved 3'-5' exonuclease active site in DNA-dependent DNA polymerases," Gene 112:139-144, Elsevier Science Publishers B.V. (1992).
J.T.	AT	14	Braithwaite, D.K., and Ito, J., "Compilation, alignment, and phylogenetic relationships of DNA polymerases," Nucleic Acids Res. 21:787-802, Oxford University Press (1993).

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2/28/2004

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J.T.	AL6	WO 96/38568 A1	12/05/1996	WIPO			<input checked="" type="radio"/> Yes <input type="radio"/> No
J.T.	AM6	EP 0 655 506 B1	05/31/1995	Europe			<input checked="" type="radio"/> Yes <input type="radio"/> No
	AN						<input type="radio"/> Yes <input type="radio"/> No
	AO						<input type="radio"/> Yes <input type="radio"/> No
	AP						<input type="radio"/> Yes <input type="radio"/> No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

J.T.	AR	15	Carroll, S.S., et al., "A Mutant of DNA Polymerase I (Klenow Fragment) with Reduced Fidelity," <i>Biochemistry</i> 30:804-813, American Chemical Society (1991).
	AS	15	Chien, A., et al., "Deoxyribonucleic Acid Polymerase from the Extreme Thermophile <i>Thermus aquaticus</i> ," <i>J. Bacteriol.</i> 127:1550-1557, American Society for Microbiology (1976).
J.T.	AT	15	Darzens, A., and Chakrabarty, A.M., "Cloning of Genes Controlling Alginate Biosynthesis from a Mucoid Cystic Fibrosis Isolate of <i>Pseudomonas aeruginosa</i> ," <i>J. Bacteriol.</i> 159:9-18, American Society for Microbiology (1984).

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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

J. T.	AR	16	Das, S.K., and Fujimura, R.K., "Mechanism of T5-induced DNA Polymerase. I. Replication of Short Primer Templates," <i>J. Biol. Chem.</i> 252:8700-8707, The American Society for Biochemistry and Molecular Biology, Inc. (1977).
	AS	16	Das, S.K., and Fujimura, R.K., "Processiveness of DNA Polymerases: A Comparative Study Using a Simple Procedure," <i>J. Biol. Chem.</i> 254:1227-1232, The American Society for Biochemistry and Molecular Biology, Inc. (1979).
J. T.	AT	16	Delarue, M., et al., "An attempt to unify the structure of polymerases," <i>Protein Engin.</i> 3:461-467, Oxford University Press (1990).

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J. Z	AR	17	Derbyshire, V., et al., "Genetic and Crystallographic Studies of the 3',5'-Exonucleolytic Site of DNA Polymerase I," <i>Science</i> 240:199-201, American Association for the Advancement of Science (1988).
	AS	17	Derbyshire, V., et al., "The 3'-5' exonuclease of DNA polymerase I of <i>Escherichia coli</i> : contribution of each amino acid at active site to the reaction," <i>EMBO J.</i> 10:17-24, Oxford University Press (1991).
J. Z	AT	17	Donlin, M.J., and Johnson, K.A., "Mutants Affecting Nucleotide Recognition by T7 DNA Polymerase," <i>Biochemistry</i> 33:14908-14917, American Chemical Society (1994).

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

J. Z	AR	18	Dunn, J.J., and Studier, F.W., "Complete Nucleotide Sequence of Bacteriophage T7 DNA and the Locations of T7 Genetic Elements," J. Mol. Biol. 166:477-535, Academic Press Inc. (London) Ltd. (1983).
	AS	18	Elie, C., et al., "Thermostable DNA polymerase from the archaeobacterium <i>Sulfolobus acidocaldarius</i> : Purification, characterization and immunological properties," Eur. J. Biochem. 178:619-626, Blackwell Science, Ltd. on behalf of the Federation of European Biochemical Societies (1989).
J. H	AT	18	Freemont, P.S., et al., "A Domain of the Klenow Fragment of <i>Escherichia coli</i> DNA Polymerase I Has Polymerase but No Exonuclease Activity," Proteins: Struct. Funct. Genet. 1:66-73, Alan R. Liss, Inc. (1986).

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J.W.	AR	19	Fujimura, R.K., and Roop, B.C., "Characterization of DNA Polymerase Induced by Bacteriophage T5 with DNA Containing Single Strand Breaks," J. Biol. Chem. 251:2168-2175, The American Society for Biochemistry and Molecular Biology, Inc. (1976).
	AS	19	Fujimura, R.K., et al., "Physical Locus of the DNA Polymerase Gene and Genetic Maps of Bacteriophage T5 Mutants," J. Virol. 53:495-500, American Society for Microbiology (1985).
J.H.	AT	19	Gerard, G.F., et al., "Poly(2'-O-methylcytidylate)-Oligodeoxyguanylate as a Template for the Ribonucleic Acid Directed Deoxyribonucleic Acid Polymerase in Ribonucleic Acid Tumor Virus Particles and a Specific Probe for the Ribonucleic Acid Directed Enzyme in Transformed Murine Cells," Biochemistry 13:1632-1641, American Chemical Society (1974).

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Sh	AR	20	Gutman, P.D., and Minton, K.W., "Conserved sites in the 5'-3' exonuclease domain of <i>Escherichia coli</i> DNA polymerase," <i>Nucleic Acids Res.</i> 21:4406-4407, Oxford University Press (1993).
	AS	20	Huber, R., et al., " <i>Thermotoga maritima</i> sp. nov. represents a new genus of unique extremely thermophilic eubacteria growing up to 90°C," <i>Arch. Microbiol.</i> 144:324-333, Springer-Verlag (1986).
Sh	AT	20	Huser, B.A., et al., "Isolation and characterisation of a novel extremely thermophilic, anaerobic, chemo-organotrophic eubacterium," <i>FEMS Microbiol. Lett.</i> 37:121-127, Elsevier (1986).

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J. Z	AR	21	Ishino, Y., et al., "Amino Acid Sequence Motifs Essential to 3' - 5' Exonuclease Activity of <i>Escherichia coli</i> DNA Polymerase II," <i>J. Biol. Chem.</i> 269:14655-14660, The American Society for Biochemistry and Molecular Biology, Inc. (1994).
	AS	21	Ito, J., and Braithwaite, D.K., "Compilation and alignment of DNA polymerase sequences," <i>Nucleic Acids Res.</i> 19:4045-4057, Oxford University Press (1991).
J. Z	AT	21	Jannasch, H.W., et al., " <i>Thermotoga neapolitana</i> sp. nov. of the extremely thermophilic, eubacterial genus <i>Thermotoga</i> ," <i>Arch. Microbiol.</i> 150:103-104, Springer-Verlag (1988).

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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

J.T	AR	22	Joyce, C.M., et al., "Nucleotide Sequence of the <i>Escherichia coli</i> polA Gene and Primary Structure of DNA Polymerase I," <i>J. Biol. Chem.</i> 257:1958-1964, The American Society for Biochemistry and Molecular Biology, Inc. (1982).
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J.T	AT	22	Joyce, C.M., and Steitz, T.A., "Function and Structure Relationships in DNA Polymerases," <i>Annu. Rev. Biochem.</i> 63:777-822, Annual Reviews, Inc. (1994).

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	AM						Yes No
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	AP						Yes No

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J.T.	AR	23	Kaboev, O.K., et al., "Purification and Properties of Deoxyribonucleic Acid Polymerase from <i>Bacillus stearothermophilus</i> ," <i>J. Bacteriol.</i> 145:21-26, American Society for Microbiology (1981).
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J.T.	AT	23	Kelly, R.M., and Deming, J.W., "Extremely Thermophilic Archaeobacteria: Biological and Engineering Considerations," <i>Biotechnol. Prog.</i> 4:47-62, American Institute of Chemical Engineers (1988).

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	AM						Yes No
	AN						Yes No
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J. Z	AR	24	Klimczak, L.J., et al., "Purification and Characterization of DNA Polymerase from the Archaeobacterium <i>Methanobacterium thermoautotrophicum</i> ," <i>Biochemistry</i> 25:4850-4855, American Chemical Society (1986).
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JL	AR	26	Ollis, D.L., et al., "Structure of large fragment of <i>Escherichia coli</i> DNA polymerase I complexed with dTMP," <i>Nature</i> 313:762-766, Nature Publishing Group (1985).
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JH	AR	27	Polesky, A.H., et al., "Identification of Residues Critical for the Polymerase Activity of the Klenow Fragment of DNA Polymerase I from <i>Escherichia coli</i> ," <i>J. Biol. Chem.</i> 265:14579-14591, The American Society for Biochemistry and Molecular Biology, Inc. (1990).
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J.T	AR	28	Reeve, M.A., and Fuller, C.W., "A novel thermostable polymerase for DNA sequencing," Nature 376:796-797, Nature Publishing Group (1995).
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5, 7	AR	29	Rossi, M., et al., "Structure and Properties of a Thermophilic and Thermostable DNA Polymerase Isolated from <i>Sulfolobus solfataricus</i> ," <i>System. Appl. Microbiol.</i> 7:337-341, Gustav Fischer Verlag (1986).
1	AS	29	Sagner, G., et al., "Rapid filter assay for the detection of DNA polymerase activity: direct identification of the gene for the DNA polymerase from <i>Thermus aquaticus</i> ," <i>Gene</i> 97:119-123, Elsevier (1991).
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

J.T	AR	30	Shengyu, Y., and Guofan, H., "Heat-Stable DNA Polymerase I Large Fragment Resolves Hairpin Structure in DNA Sequencing," <i>Sci. Sin. (Series B)</i> 30:503-507, Academia Sinica (1987).
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J.T	AT	30	Slater, M.R., et al., "DNA Polymerase I of <i>Thermotoga neapolitana</i> (Tne) and Mutant Derivatives," Seventh International Genome Sequencing and Analysis Conference, <i>Genome Sci. Technol.</i> 1:47, Abstract No. A-33, Mary Ann Liebert, Inc. (1995).

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

J. T	AR	31	Song, Q., et al., "Mutagenesis of the Glu-89 Residue in Human Immunodeficiency Virus Type 1 (HIV-1) and HIV-2 Reverse Transcriptases: Effects on Nucleoside Analog Resistance," J. Virol. 66:7568-7571, The American Society for Microbiology (1992).
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	AM						Yes No
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John T. J.

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7/28/2004

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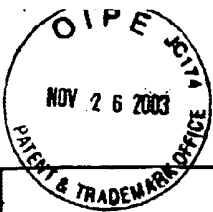
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J.T	AR	34	Windberger, E., et al., "Thermotoga thermarum sp. nov. and Thermotoga neapolitana occurring in African continental solfataric springs," Arch. Microbiol. 151:506-512, Springer-Verlag (1989).
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